

SGCN and Conservation Actions Associated with Habitat Groupings

Habitat Grouping: Tidal Marsh

Macrogroup Intertidal Tidal Marsh (peat-forming)

Habitat System Acadian Coastal Salt Marsh

Habitat System Coastal Plain Tidal Marsh

Species Associated with this Grouping Total SGCN: 1: 5 2: 14 3: 4 Total SGCN (primary habitat): 1: 2 2: 2 3: 1

Class	<i>Actinopterygii</i> (Ray-finned Fishes)	SGCN Category
Species	<i>Anguilla rostrata</i> (American Eel)	2
Class	<i>Aves</i> (Birds)	SGCN Category
Species	<i>Ammodramus caudacutus</i> (Saltmarsh Sparrow)	1
Species	<i>Ammodramus nelsoni</i> (Nelson's Sparrow)	2
Species	<i>Ardea herodias</i> (Great Blue Heron)	2
Species	<i>Asio flammeus</i> (Short-eared Owl)	2
Species	<i>Aythya marila</i> (Greater Scaup)	2
Species	<i>Calidris pusilla</i> (Semipalmated Sandpiper)	2
Species	<i>Chaetura pelagica</i> (Chimney Swift)	2
Species	<i>Coturnicops noveboracensis</i> (Yellow Rail)	2
Species	<i>Egretta caerulea</i> (Little Blue Heron)	3
Species	<i>Egretta thula</i> (Snowy Egret)	3
Species	<i>Hirundo rustica</i> (Barn Swallow)	2
Species	<i>Ixobrychus exilis</i> (Least Bittern)	1
Species	<i>Numenius phaeopus</i> (Whimbrel)	2
Species	<i>Nycticorax nycticorax</i> (Black-crowned Night-heron)	2
Species	<i>Progne subis</i> (Purple Martin)	2
Species	<i>Sternula antillarum</i> (Least Tern)	1
Species	<i>Tachycineta bicolor</i> (Tree Swallow)	2
Species	<i>Tringa flavipes</i> (Lesser Yellowlegs)	1
Class	<i>Gastropoda</i> (Aquatic And Terrestrial Snails)	SGCN Category
Species	<i>Floridobia winkleyi</i> (New England Silt Snail)	3
Class	<i>Insecta</i> (Insects)	SGCN Category
Species	<i>Cicindela marginata</i> (Salt Marsh Tiger Beetle)	2
Species	<i>Spartiniphaga inops</i> (Spartina Borer Moth)	3
Class	<i>Merostomata</i> (Horseshoe Crabs And Sea Scorpions)	SGCN Category
Species	<i>Limulus polyphemus</i> (Horseshoe Crab)	1

Habitat Stressors:

Habitat-specific stressors are assigned to the Habitat Macrogroup(s) listed in the Habitat Grouping above. Habitat Macrogroup reports can be found in Maine's 2015 Wildlife Action Plan: Element 2, Table 2-3. Click on the Habitat Macrogroup of interest to launch a habitat based report summarizing relevant stressors and associated SGCN.

Conservation Actions Assigned to this Habitat Grouping:

SGCN and Conservation Actions Associated with Habitat Groupings

Habitat Grouping: Tidal Marsh

Conservation Action	Category: Habitat Management	Biological Priority: critical	Type: new
Find ways to support culvert replacement in or near intertidal, subtidal, and tidal marsh habitats using best management practices			
Stressor(s) Addressed By This Conservation Action			
Roads and Railroads, Dams and Water Management-Use			
Conservation Action	Category: Habitat Management	Biological Priority: critical	Type: on-going
Work with land conservation organizations and private landowners to conserve tidal marshes, adjacent uplands, and marsh migration corridors			
Stressor(s) Addressed By This Conservation Action			
Commercial and Industrial Areas , Utility and Service Lines, Housing and Urban Areas, Livestock Farming and Ranching, / and Perennial Non-timber crops			
Conservation Action	Category: Habitat Management	Biological Priority: critical	Type: on-going
Conserve lands that are upland and inland of marshes to allow for marsh migration and maintain habitat connectivity			
Stressor(s) Addressed By This Conservation Action			
Habitat Shifting or Alteration			
Conservation Action	Category: Habitat Management	Biological Priority: critical	Type: on-going
Decommission remnant or unused roads and other structures in or near tidal marsh, intertidal, and subtidal habitats			
Stressor(s) Addressed By This Conservation Action			
Roads and Railroads, Dams and Water Management-Use			
Conservation Action	Category: Habitat Management	Biological Priority: high	Type: on-going
Encourage installation of lower cost SGCN-friendly infrastructure in and near subtidal, intertidal, and tidal marsh habitats through technology development and transfer of technology			
Stressor(s) Addressed By This Conservation Action			
Roads and Railroads, Dams and Water Management-Use			
Conservation Action	Category: Habitat Management	Biological Priority: high	Type: on-going
Time dredging projects in subtidal and tidal marsh habitats to minimize harm to SGCN based on migration and spawning cycles			
Stressor(s) Addressed By This Conservation Action			
Shipping Lanes			
Conservation Action	Category: Habitat Management	Biological Priority: moderate	Type: new
Employ technology to reduce nutrient discharge adjacent to tidal marshes, e.g. storm water remediation measures including SmartSponge, infiltration chambers, and storm water settling areas			
Stressor(s) Addressed By This Conservation Action			
Domestic and Urban Waste Water, Agricultural and Forestry Effluents, Industrial and Military Effluents, Storms and Flooding			
Conservation Action	Category: Habitat Management	Biological Priority: moderate	Type: on-going
Maintain or create corridors between tidal marshes and other habitats used by tidal marsh SGCN			
Stressor(s) Addressed By This Conservation Action			
Annual and Perennial Non-timber crops, Livestock Farming and Ranching, Housing and Urban Areas, Commercial and Industrial Areas , Utility and Service Lines			
Conservation Action	Category: Habitat Management	Biological Priority: moderate	Type: on-going
Re-route existing trails and/or boardwalks around tidal marshes to minimize foot traffic and disturbance to SGCN habitats			
Stressor(s) Addressed By This Conservation Action			
Recreational Activities			

SGCN and Conservation Actions Associated with Habitat Groupings

Habitat Grouping: Tidal Marsh

Conservation Action	Category: Policy	Biological Priority: critical	Type: new
Provide incentives for building Stream Smart structures and road crossings in or near intertidal, subtidal, and tidal marsh habitats that allow for changing environmental conditions such as sea level rise and increased flooding			
Stressor(s) Addressed By This Conservation Action			
Roads and Railroads, Dams and Water Management-Use			
Conservation Action	Category: Policy	Biological Priority: high	Type: new
Implement voluntary best standards for road/stream crossings in or near tidal marshes			
Stressor(s) Addressed By This Conservation Action			
Roads and Railroads, Dams and Water Management-Use			
Conservation Action	Category: Policy	Biological Priority: high	Type: new
Site shipping lanes and dredging projects to minimize negative impacts to intertidal and subtidal SGCN and their habitats			
Stressor(s) Addressed By This Conservation Action			
Shipping Lanes			
Conservation Action	Category: Policy	Biological Priority: high	Type: on-going
Continue to improve rapid response for oil and gas spills in intertidal and subtidal habitats, including state agencies efforts to have most up-to-date species maps, rapid response protocols in place, and regular scenario training			
Stressor(s) Addressed By This Conservation Action			
Shipping Lanes			
Conservation Action	Category: Policy	Biological Priority: high	Type: on-going
Increase capacity for enforcement of current laws and regulations regarding proper infrastructure (e.g., roads, dams, utility lines, shipping lanes) construction, maintenance, water quality, and fish passage in tidal marsh, intertidal, and subtidal SGCN habitats			
Stressor(s) Addressed By This Conservation Action			
Dams and Water Management-Use, Roads and Railroads			
Conservation Action	Category: Policy	Biological Priority: moderate	Type: on-going
Increase awareness about invasive species and problems following the introduction of invasive species in the shipping, transportation, and other industries to prevent introductions and spread of invasive species in intertidal and subtidal habitats			
Stressor(s) Addressed By This Conservation Action			
Invasive Non-native-Alien Species-Diseases, Problematic Native Species-Diseases			
Conservation Action	Category: Policy	Biological Priority: moderate	Type: on-going
Develop and provide model best practice maintenance and operating procedures (e.g., maintenance frequency, replacement schedules) for municipal, state, and private managers of infrastructure in tidal marshes			
Stressor(s) Addressed By This Conservation Action			
Roads and Railroads, Dams and Water Management-Use			
Conservation Action	Category: Public Outreach	Biological Priority: high	Type: on-going
Encourage partnership projects among transportation agencies, utility companies, etc. to facilitate fish passage and maintain connectivity in or near subtidal, intertidal, and tidal marsh habitats especially in cases where structures have different purposes for different users			
Stressor(s) Addressed By This Conservation Action			
Dams and Water Management-Use, Roads and Railroads			
Conservation Action	Category: Public Outreach	Biological Priority: high	Type: on-going
Provide education and outreach through local meetings and trainings (e.g., Stream Smart) on techniques, problems and ecological effects of dams, roads, shipping lanes, and utility corridors on intertidal, subtidal, and tidal marsh habitats and publicize completed projects			

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Stressor(s) Addressed By This Conservation Action

Roads and Railroads, Dams and Water Management-Use

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: new
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Research the efficacy of tidal marsh conversion

Stressor(s) Addressed By This Conservation Action

Annual and Perennial Non-timber crops, Livestock Farming and Ranching, Housing and Urban Areas, Commercial and Industrial Areas, Utility and Service Lines

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: new
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Provide outreach and education to planners, developers, and homeowners about best management practices for site design, property maintenance, and landscaping adjacent to tidal marshes and their buffers

Stressor(s) Addressed By This Conservation Action

Housing and Urban Areas, Commercial and Industrial Areas, Utility and Service Lines, Livestock Farming and Ranching, Annual and Perennial Non-timber crops

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: new
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Provide incentives for converting land into tidal marsh or protecting existing tidal marsh

Stressor(s) Addressed By This Conservation Action

Livestock Farming and Ranching, Annual and Perennial Non-timber crops, Housing and Urban Areas, Commercial and Industrial Areas, Utility and Service Lines

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: on-going
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Provide outreach and education to homeowners and businesses to reduce their wastewater and storm water inputs into and effects on tidal marshes, including increased buffers and minimal fertilizer use

Stressor(s) Addressed By This Conservation Action

Agricultural and Forestry Effluents, Domestic and Urban Waste Water, Industrial and Military Effluents, Storms and Flooding

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: on-going
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Provide outreach and education to homeowners and municipalities regarding proper installation, maintenance, and removal of septic systems

Stressor(s) Addressed By This Conservation Action

Industrial and Military Effluents, Storms and Flooding, Agricultural and Forestry Effluents, Domestic and Urban Waste Water

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: on-going
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Increase outreach and education on preventing the spread of invasive/problematic species and diseases in intertidal, subtidal, and tidal marsh habitats

Stressor(s) Addressed By This Conservation Action

Invasive Non-native-Alien Species-Diseases, Problematic Native Species-Diseases

Conservation Action	Category: Public Outreach	Biological Priority: moderate	Type: on-going
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Deploy signage to notify recreationalists to the sensitivity of tidal marsh habitat

Stressor(s) Addressed By This Conservation Action

Recreational Activities

Conservation Action	Category: Research	Biological Priority: moderate	Type: on-going
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Research and model marsh migration scenarios resulting from sea level rise

Stressor(s) Addressed By This Conservation Action

Habitat Shifting or Alteration

Conservation Action	Category: Survey and Monitoring	Biological Priority: high	Type: on-going
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Build upon and coordinate with existing monitoring efforts to establish a long term tidal marsh monitoring program, with emphasis on assessing sediment dynamics in the context of sea level rise

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Stressor(s) Addressed By This Conservation Action

Annual and Perennial Non-timber crops, Livestock Farming and Ranching, Housing and Urban Areas, Commercial and Industrial Areas, Utility and Service Lines

Conservation Action	Category: Survey and Monitoring	Biological Priority: high	Type: on-going
Develop monitoring systems and rapid response plans to prevent the colonization of invasive/problematic species and diseases in intertidal, subtidal, and tidal marsh habitats			

Stressor(s) Addressed By This Conservation Action

Problematic Native Species-Diseases, Invasive Non-native-Alien Species-Diseases

Conservation Action	Category: Survey and Monitoring	Biological Priority: moderate	Type: on-going
Continue and expand monitoring programs that track tidal marsh changes over time			

Stressor(s) Addressed By This Conservation Action

Habitat Shifting or Alteration

Species Conservation Actions:

Conservation actions that may benefit species associated with this habitat grouping can be found in Maine's 2015 Wildlife Action Plan: Element 1, Table 1-3. Click on the species of interest to launch a species based report summarizing relevant conservation actions and associated habitats.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.